

招财进宝

专利证书



香港鑫恒陽股份有限公司

HongKong Xin hengyang Stock Co.,Ltd

深圳市鑫恒阳科技有限公司

ShenZhen XinHengYang Technology co.,Ltd



品牌强国

自主品牌优选示范工程



Focused and sustained doing one thing.
<https://WWW.xhy-2008.com>

目录 (List)

- ◆ 概要 (Summary)
- ◆ 项目信息 (Project information)
- ◆ 测试设备 (Test Equipment)
- ◆ 机台图片 (Machineimage)
- ◆ 实际测试图片 (test photo)
- ◆ 主板匹配电路 (Main board matching circuit)
- ◆ 天线位置 (ANT Location)
- ◆ Return Loss&VSWR
- ◆ 辐射方向图 (Radiation pattern)
- ◆ 无源效率、增益测试告 (Passive efficiency and gain test report)
- ◆ 环境处理 (Environmental treatment)
- ◆ 实测距离 (Actual distance)
- ◆ 总结 (Summarize)

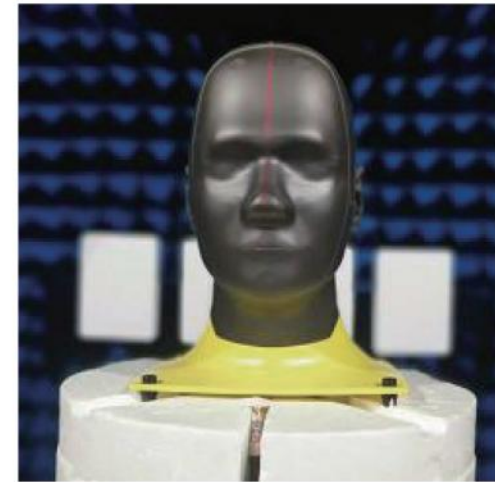
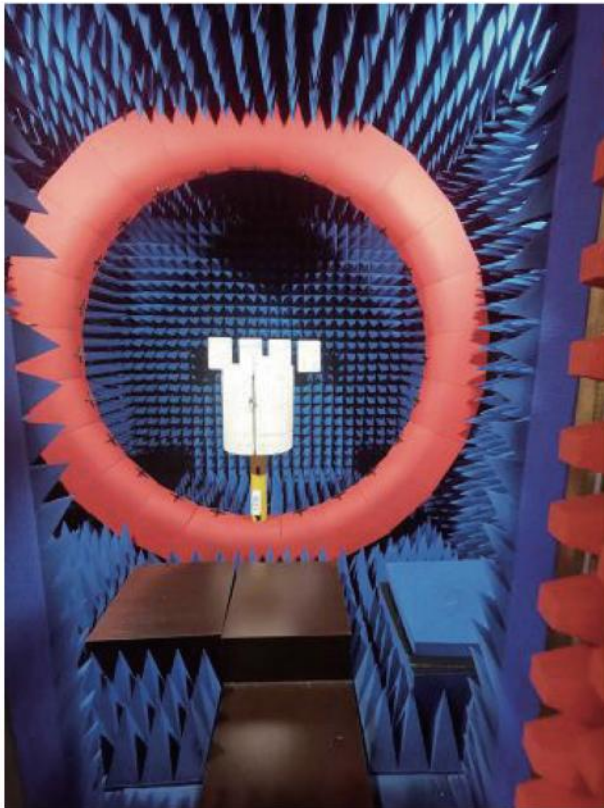
XinHengYang Antenna Test Data Report

◆ 项目信息 (Project information)

Manufacturer	Dongguan Heng Da Rui Electronic Technology Co., Ltd.
Address:	Room 701, Unit 1, Building 2, No. 58, Humen Zhongxing Road, Humen Town, Dongguan City, Guangdong Province
项目名PRODUCT NAME:	EP12
研发(R&D):	肖谭平 Xiao Tanping
日期DATE:	2025/09/17

I. Test Equipment

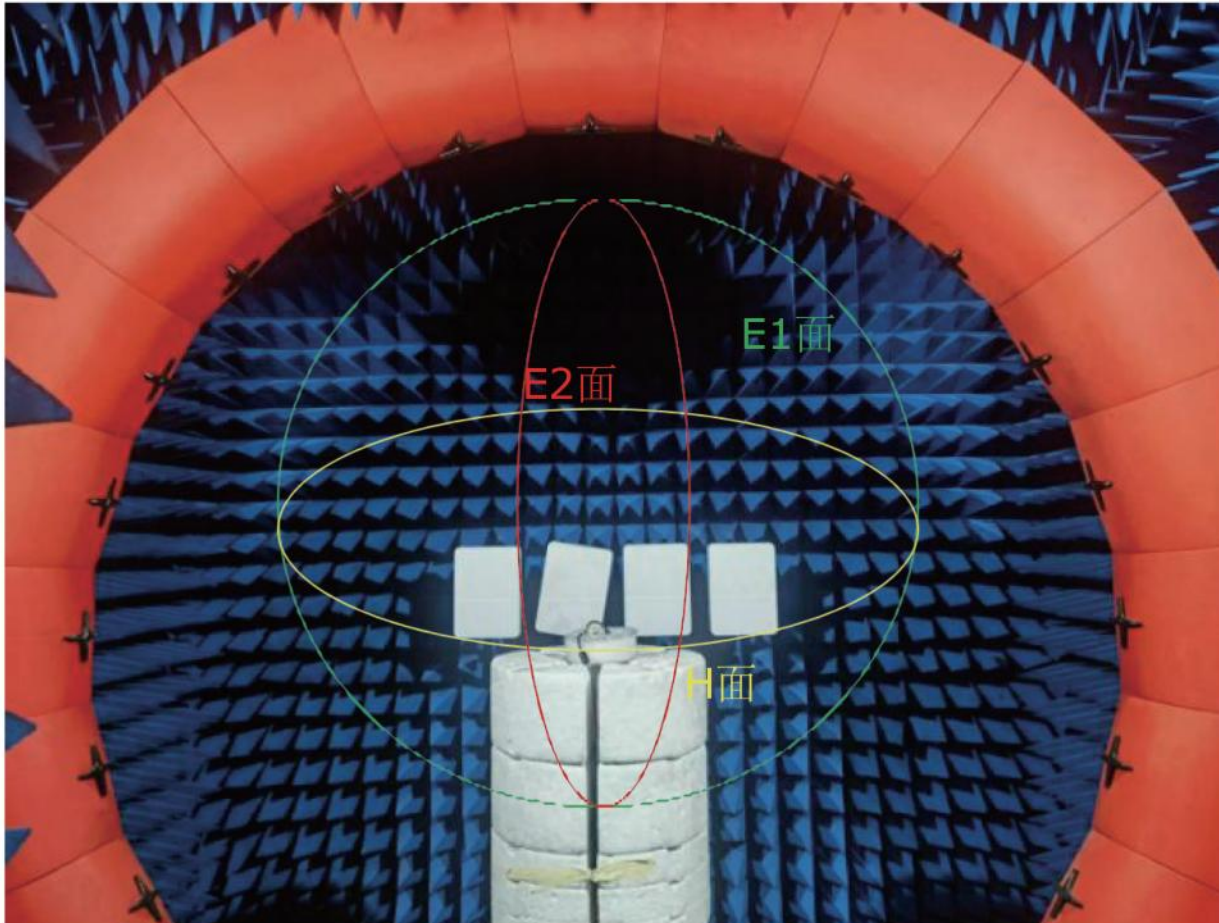
1. Active Test: Supports Multi-Mode Measurement of 2G/3G/4G/5G, NB-IoT, eMTC, CAT-1, Bluetooth 1-5, WIFI 802.11 ABGN; TRP and TIS Testable
2. Passive Test: Gain and Efficiency Testable
3. Full Set of Head and Hand Phantoms for TWS Earphone Testing



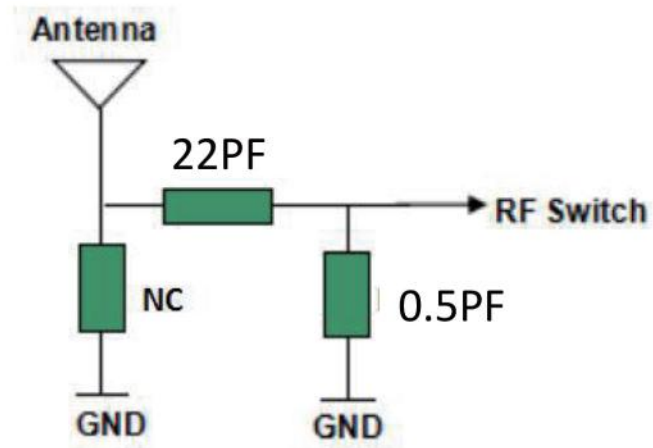
II. Machine image



III. test photo

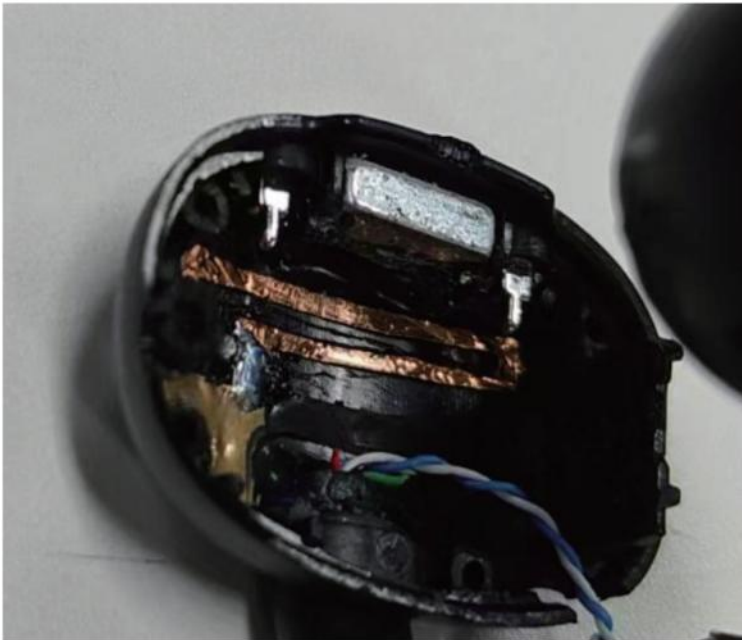


IV. Main board matching circuit

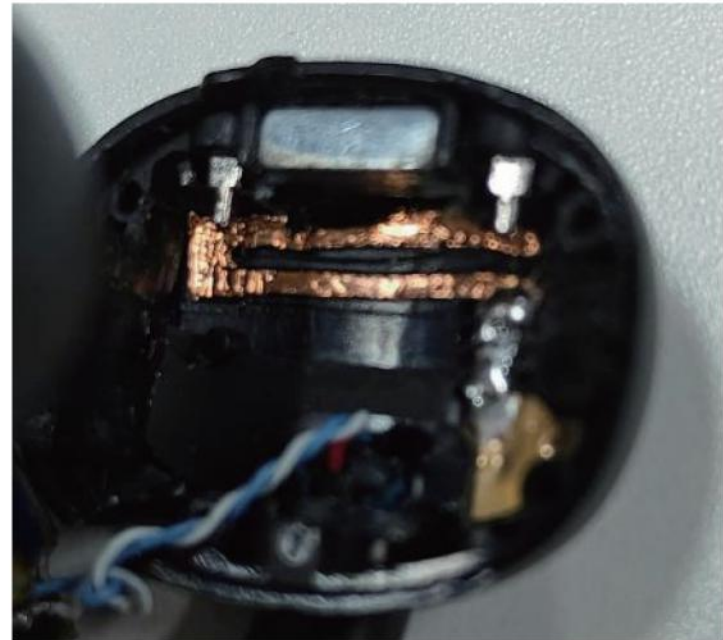


V. ANT Location

Ant Type:FPC Antenna



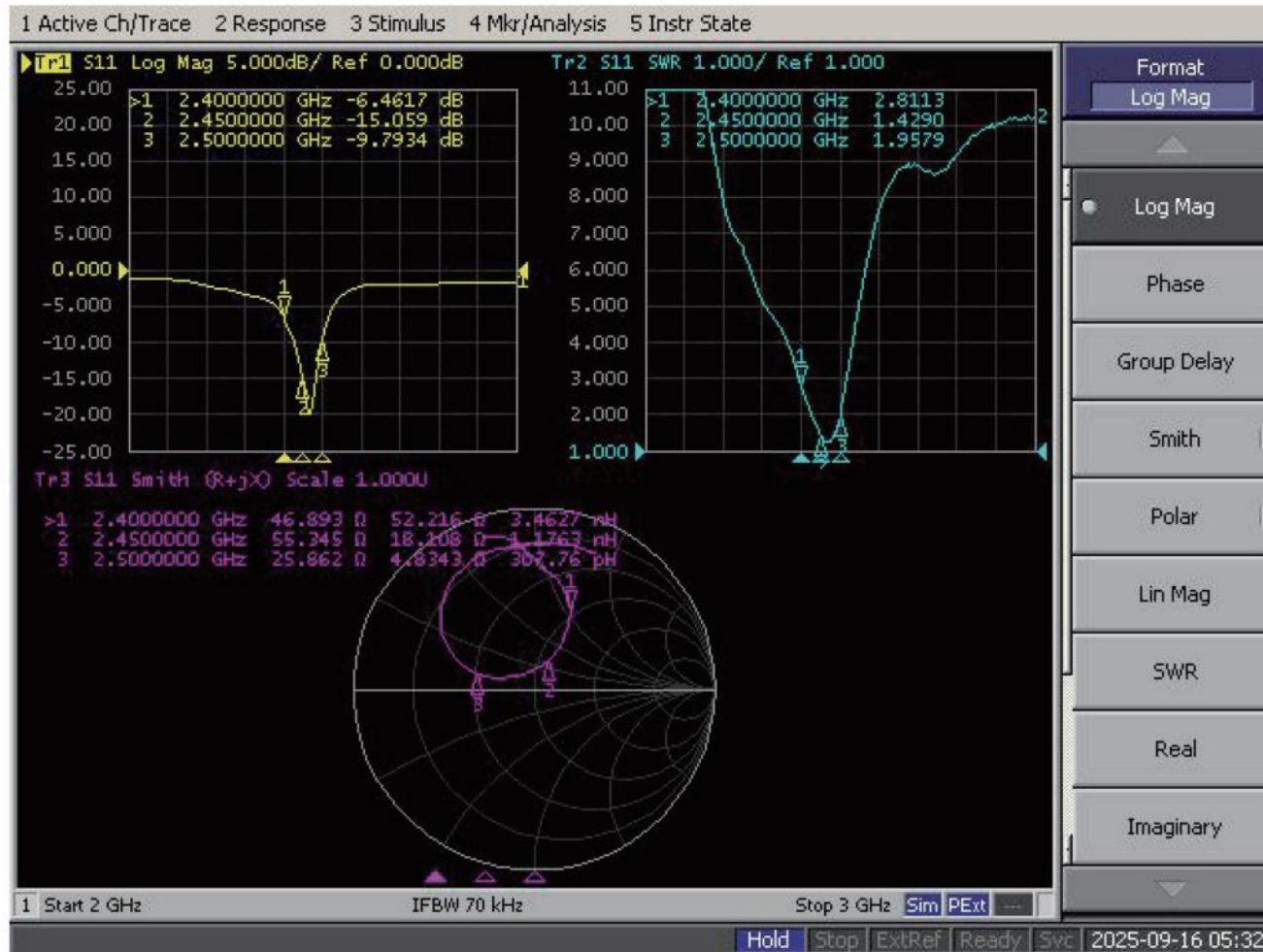
L



R

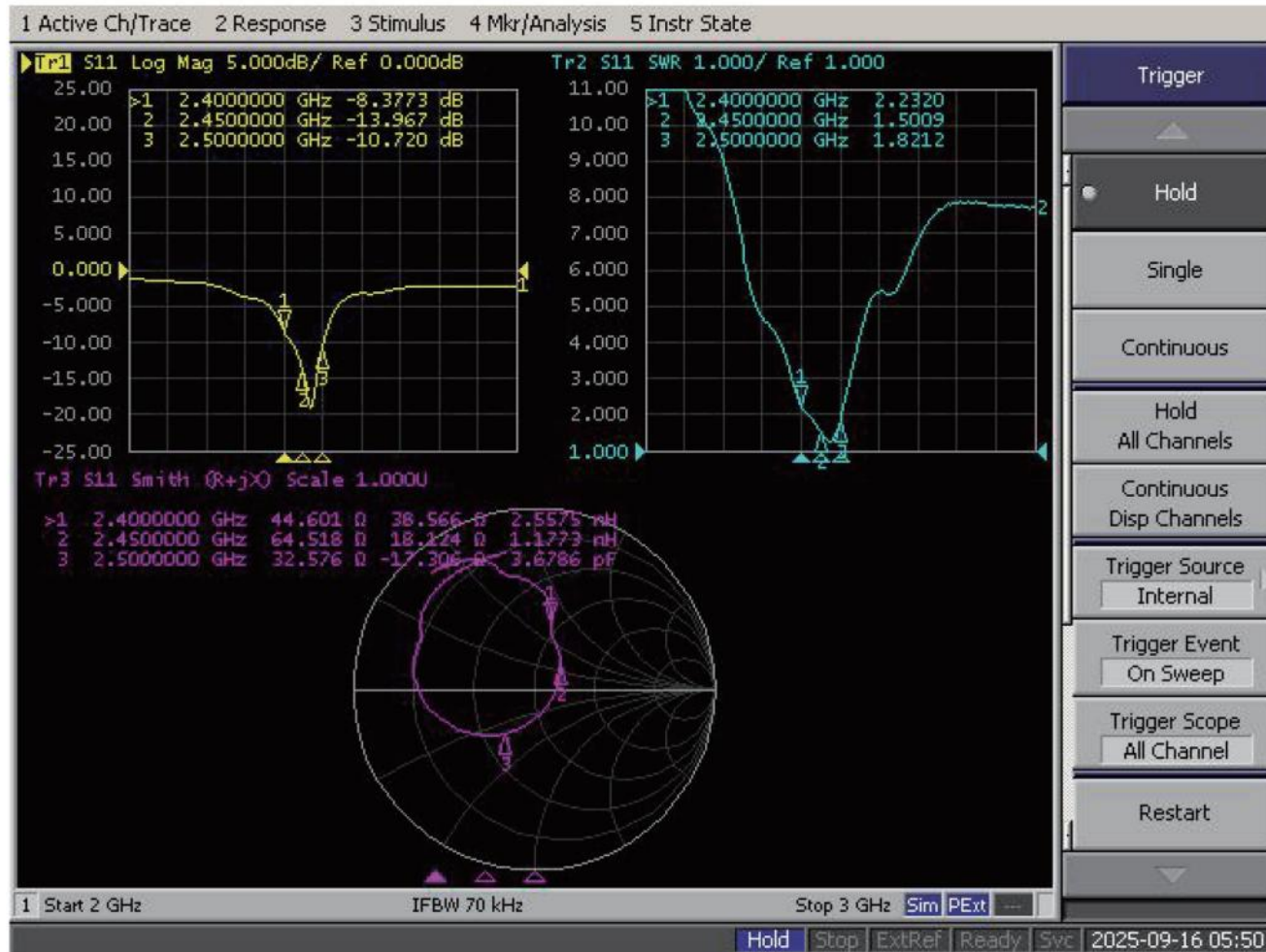
VI. ReturnLoss&VSWR

L



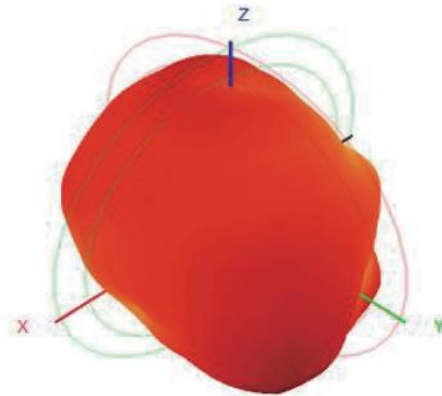
VI. ReturnLoss&VSWR

R

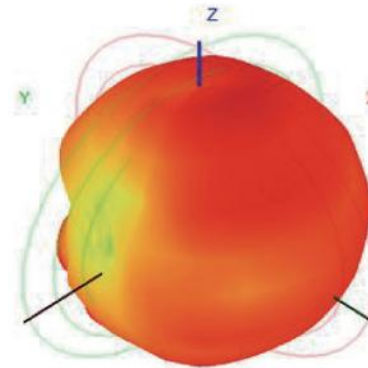


VII. Radiation pattern

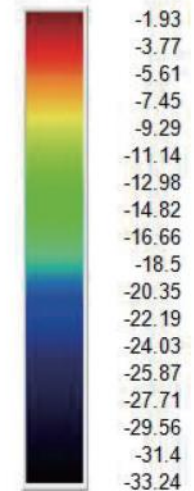
L-2400MHZ



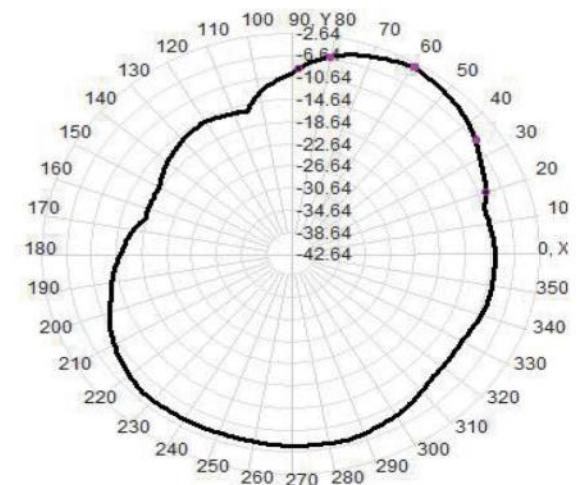
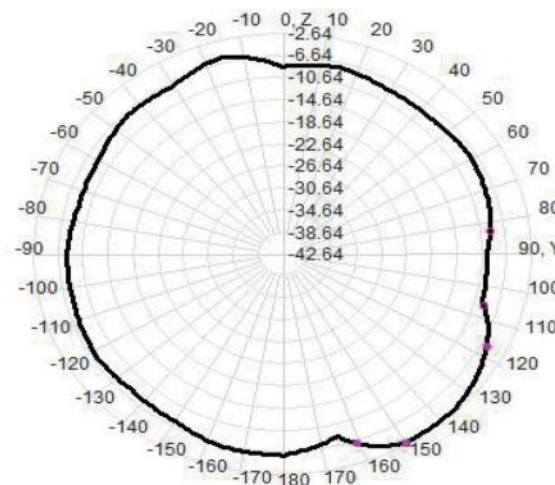
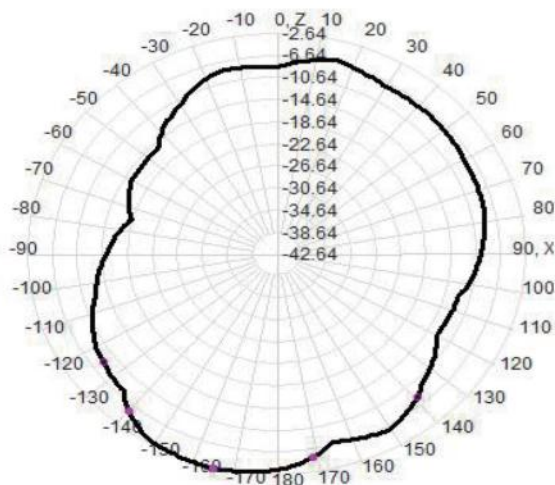
Total(E1-XZ)



Total(E2-YZ)

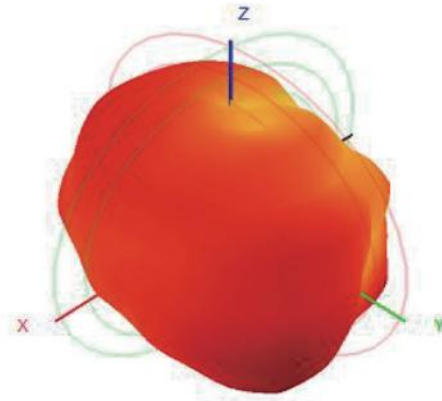


Total(H-XY)

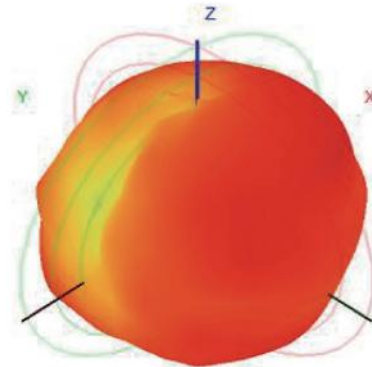


VII. Radiation pattern

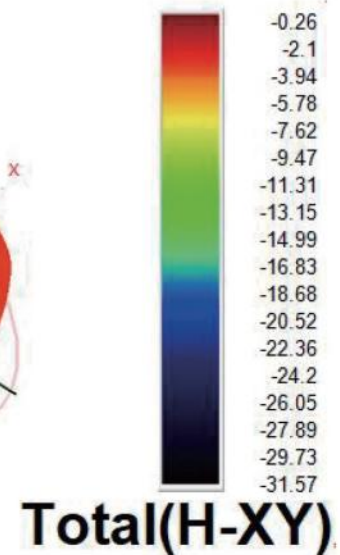
L-2450MHZ



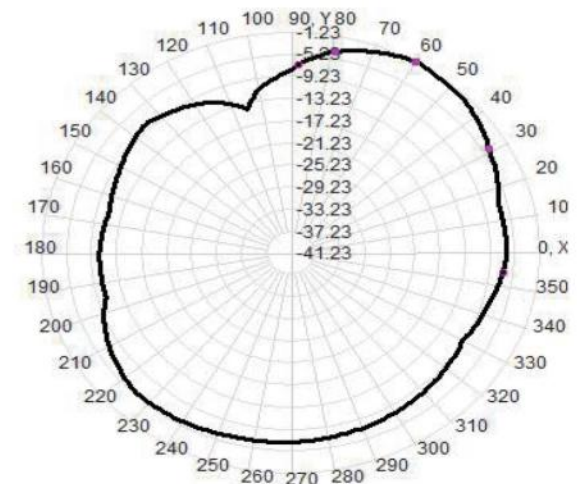
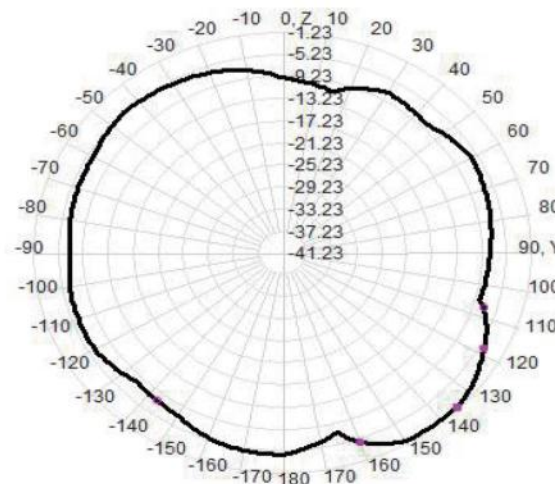
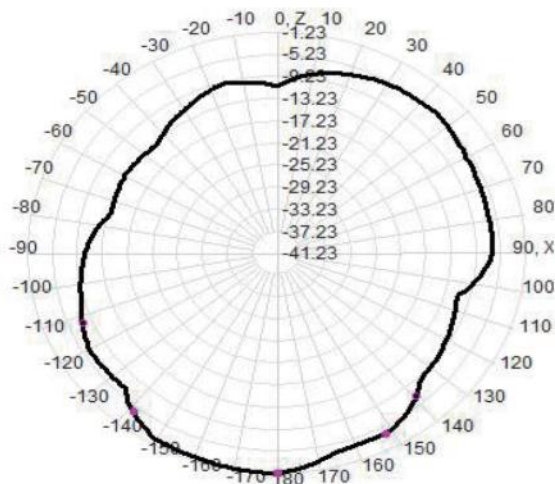
Total(E1-XZ)



Total(E2-YZ)

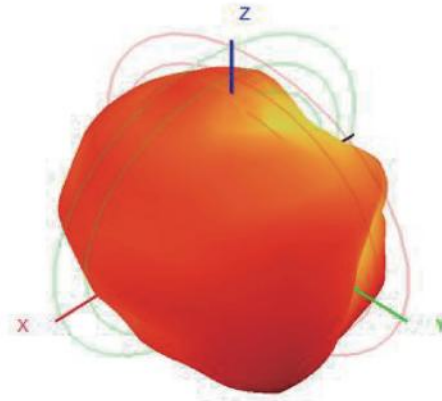


Total(H-XY)

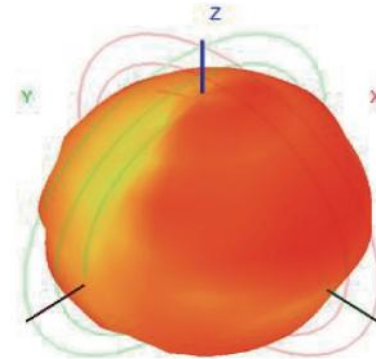


VII. Radiation pattern

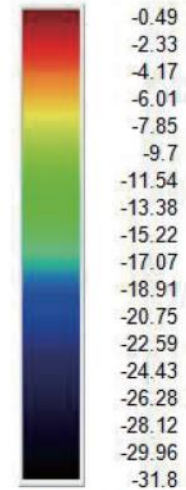
L-2500MHZ



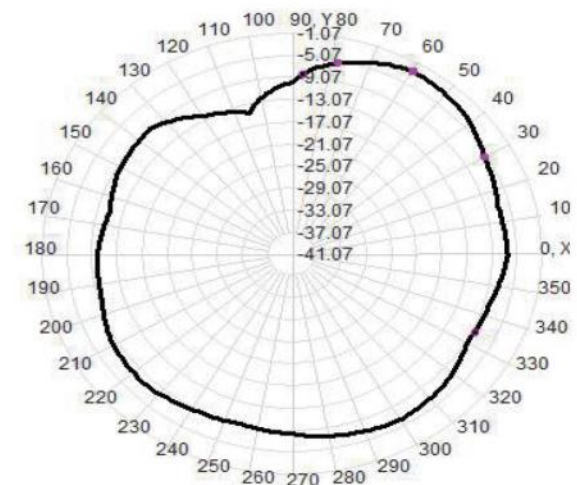
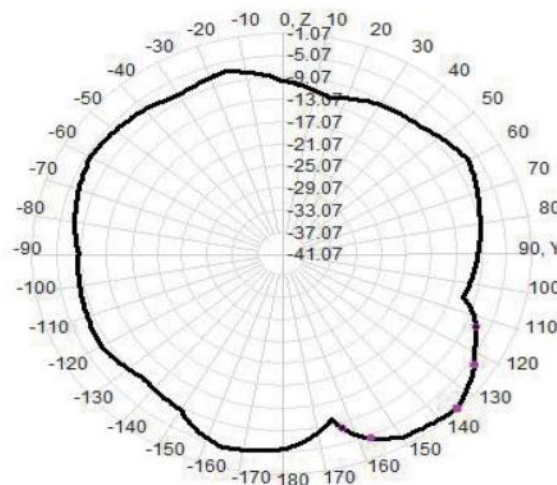
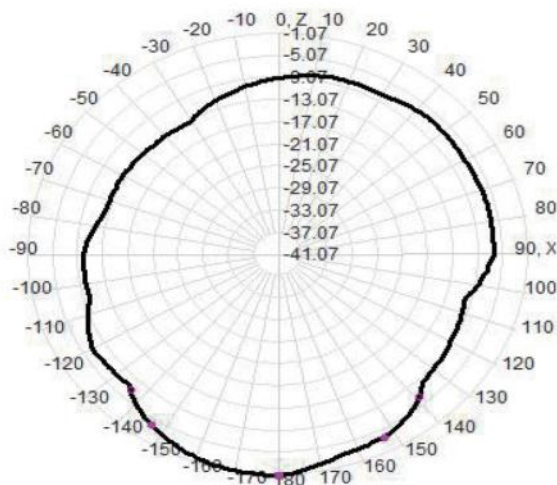
Total(E1-XZ)



Total(E2-YZ)

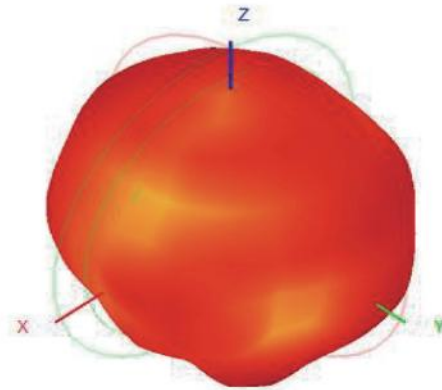


Total(H-XY)

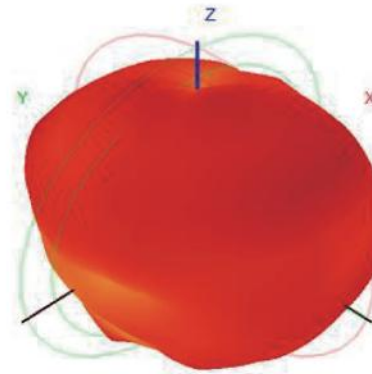


VII. Radiation pattern

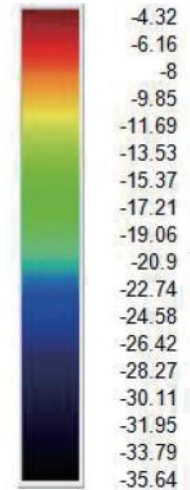
R-2400MHZ



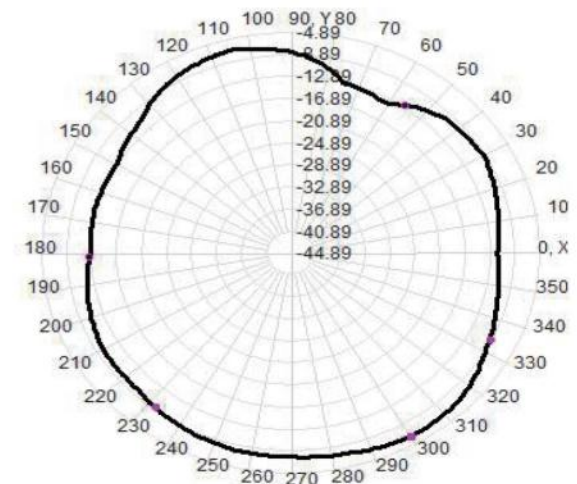
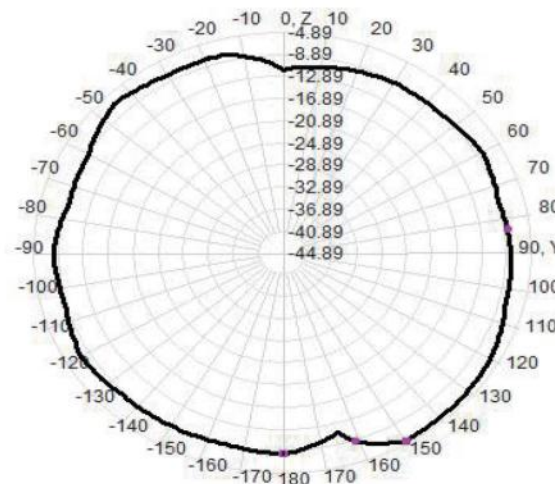
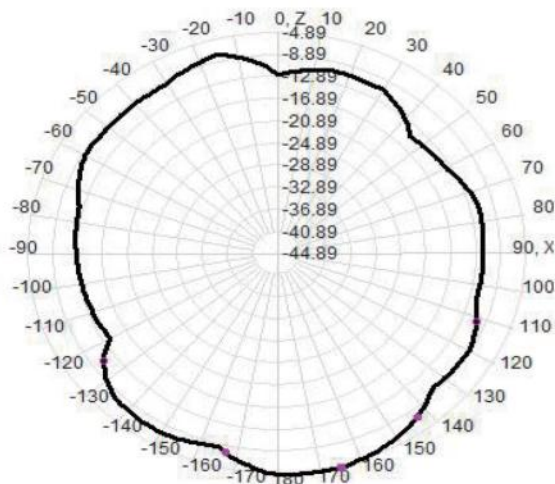
Total(E1-XZ)



Total(E2-YZ)

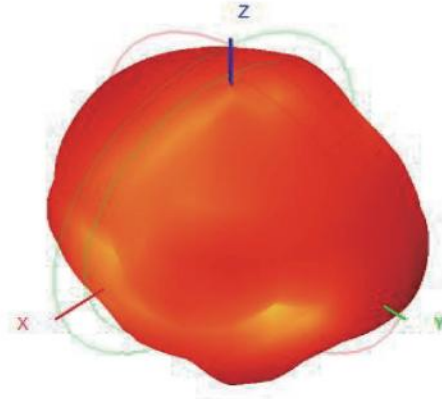


Total(H-XY)

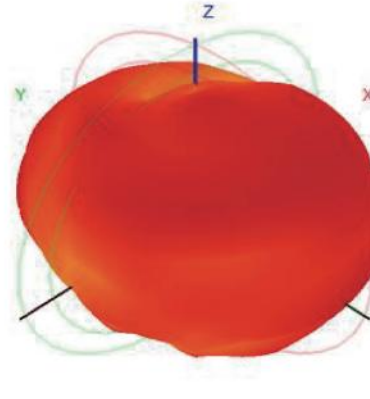


VII. Radiation pattern

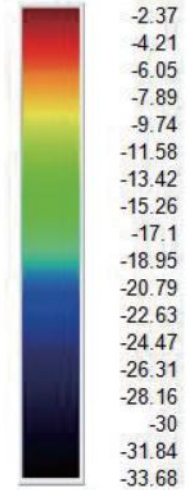
R-2450MHZ



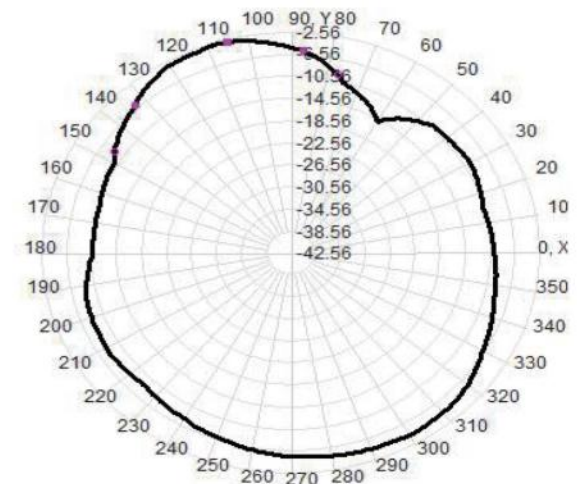
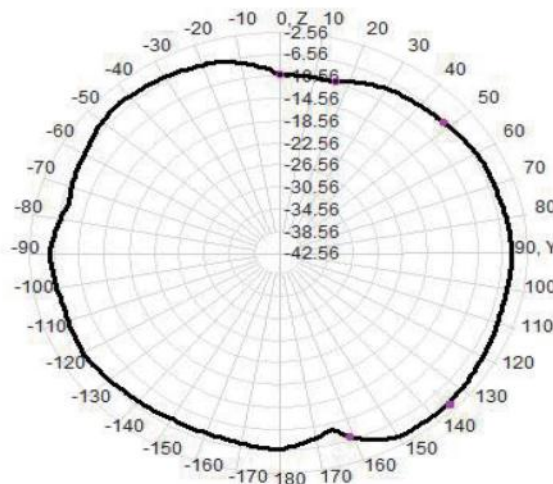
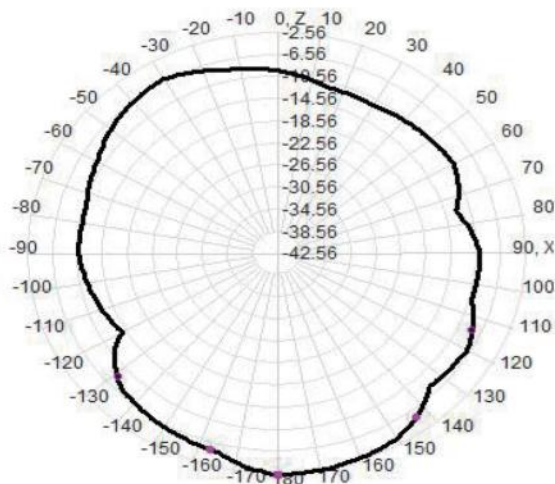
Total(E1-XZ)



Total(E2-YZ)

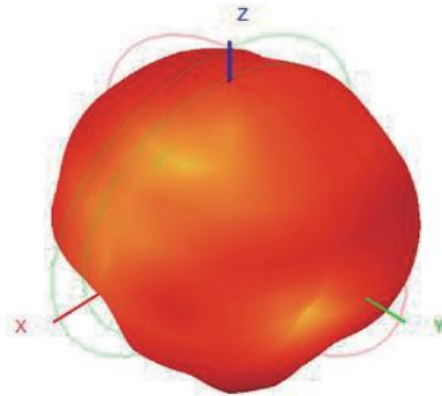


Total(H-XY)

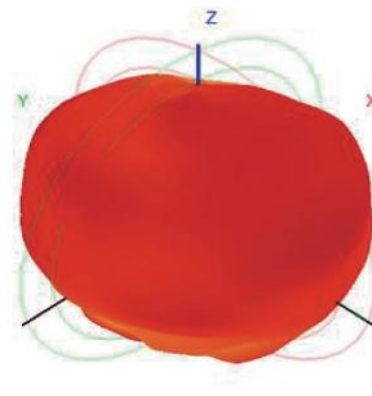


VII. Radiation pattern

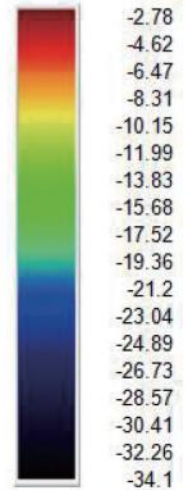
R-2500MHZ



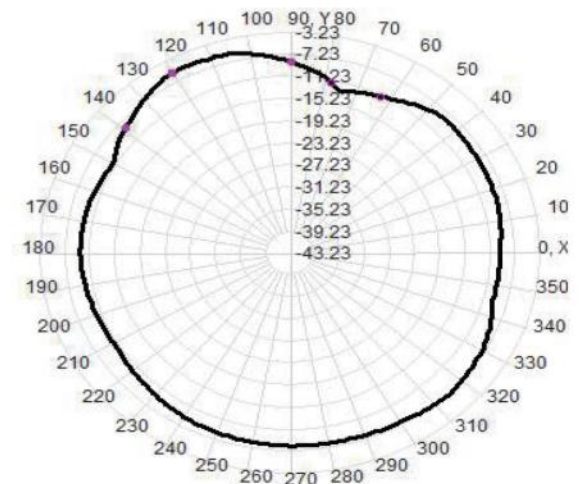
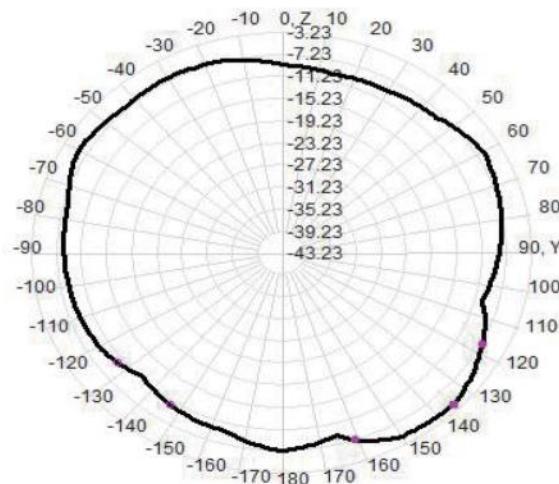
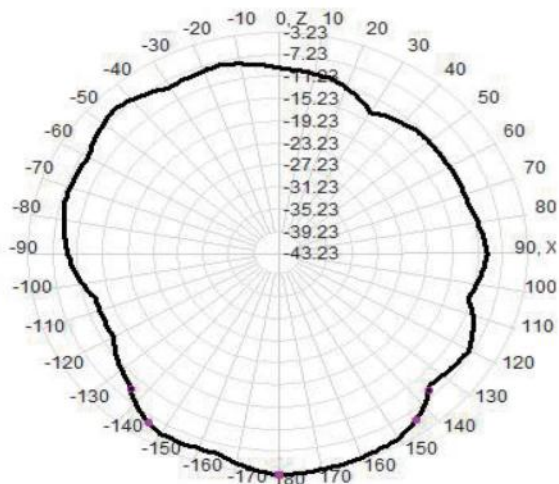
Total(E1-XZ)



Total(E2-YZ)

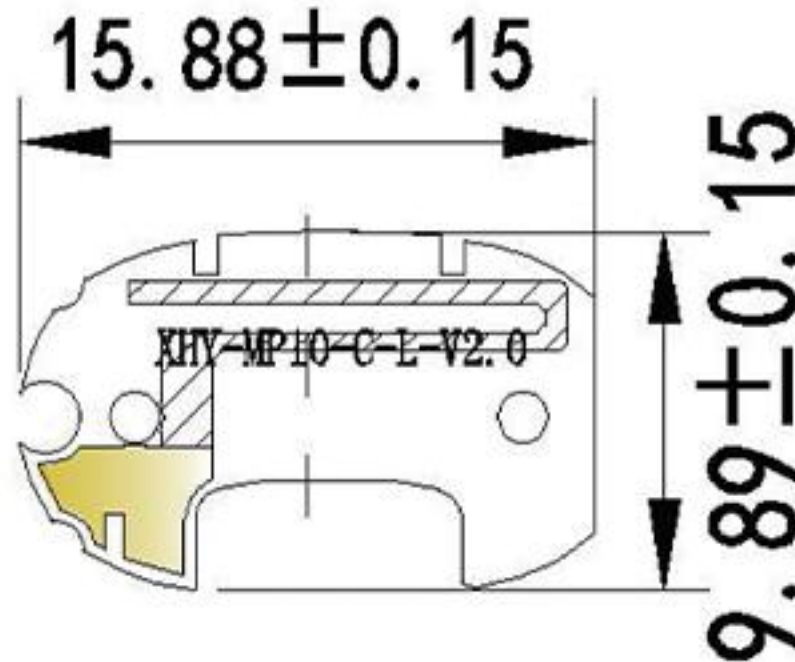


Total(H-XY)



VIII. Product Drawing

earphones-L

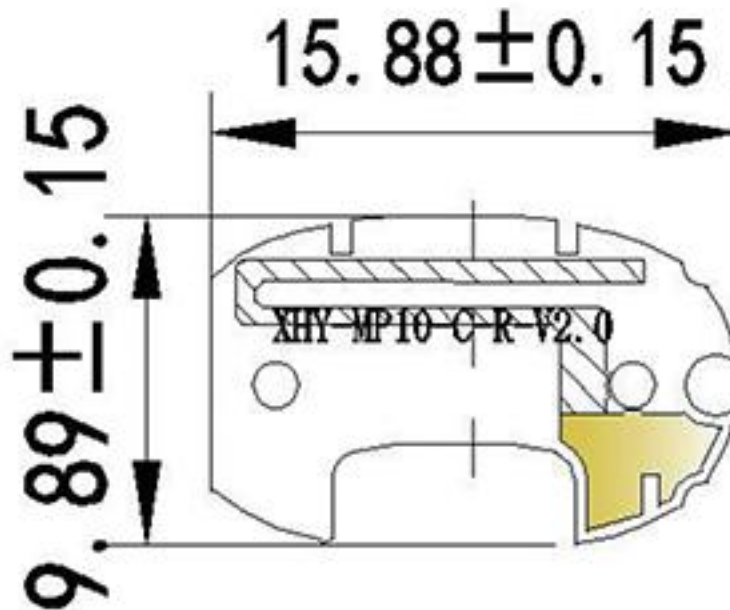


Full-size delivery of standard cutting dies
shared with -XHY-BP10- outline mold

FPC in black with bright white characters
printed by screen printing.

VIII. Product Drawing

earphones-R



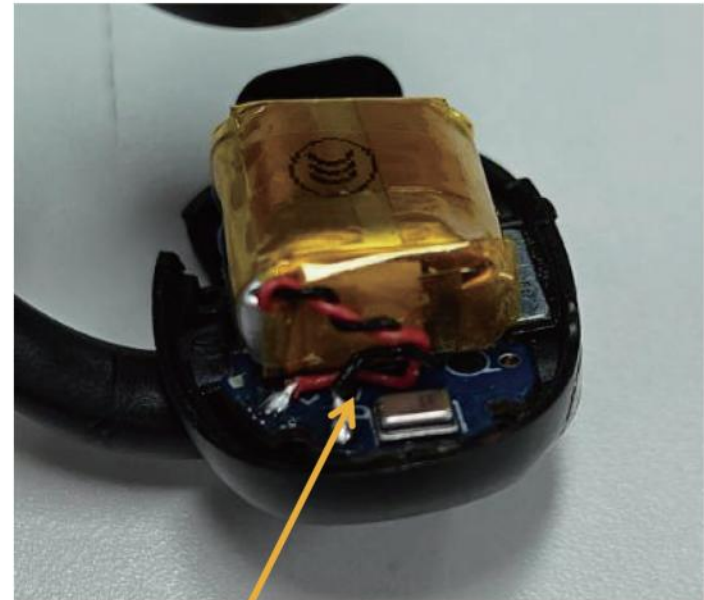
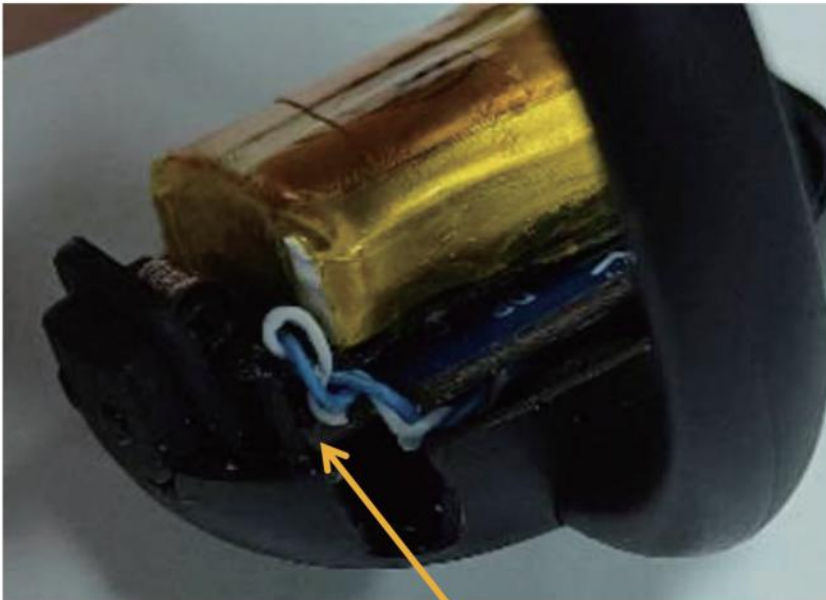
Full-size delivery of standard cutting dies
shared with -XHY-BP10- outline mold

FPC in black with bright white characters
printed by screen printing.

IX Passive efficiency and gain

L			R		
Frequency (MHz)	Gain (dBi)	Efficiency (%)	Frequency (MHz)	Gain (dBi)	Efficiency (%)
2400	-1.93	15.90	2400	-4.32	12.30
2410	-1.67	16.66	2410	-3.76	12.80
2420	-1.15	18.65	2420	-3.21	14.03
2430	-0.73	20.96	2430	-2.83	15.74
2440	-0.56	22.30	2440	-2.78	16.78
2450	-0.26	24.21	2450	-2.37	18.60
2460	-0.21	24.35	2460	-2.17	19.18
2470	-0.47	22.55	2470	-2.29	18.26
2480	-0.32	22.68	2480	-2.09	18.51
2490	-0.23	22.49	2490	-2.25	17.61
2500	-0.49	20.61	2500	-2.78	15.78

X. Environmental treatment



As Shown In The Figure, The Speaker Cable And Battery Cable Are Twisted Together And Routed Vertically



ShenZhen XinHengYang Technology co.,Ltd

XI. Actual distance

Date: September 17, 2025

Weather: Sunny

Test Environment: Outdoor Parking lot of the Aerospace Micro Motor Building

Test Phone: Samsung S8

Test Distance: Approximately 9 Meters, no Lag/Stuttering

XII. Summary

- 1.The Above Data Were Obtained from Testing The Initial Version of The Tuned Antenna And Copper Foil Samples.
- 2.Since The Device Cannot Be Entered into DUT, Only Passive And Measured Data Can Be Provided for Now.
- 3.Currently, The Measured Distance with The Samsung S8 Is Approximately 9 Meters. Our Company Will Continue to Attempt Further Optimization.



ShenZhen XinHengYang Technology co.,Ltd

Thank you

For any questions, please communicate by phone.

RF Engineer: Xiao Tanping

Mobile: 17347352784

Phone: 0755-83600916 R&D Department: 0755-86715202

Fax: 0755-88355591 Website: <http://XHY-2008.com>

Website: <http://XHY-2008.com> QQ: 84223786

**Address: 1st Floor, Building B, Aerospace Micro-motor Building,
No.7 Langshan No.2 Road, Xili Subdistrict, Nanshan District, Shenzhen**